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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/014,712	12/14/2001	Gottlieb-Georg Lindner	213142US0	4111	
22850	7590 10/17/2003		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			NGUYEN, NGOC YEN M		
			ART UNIT	PAPER NUMBER	
			1754	100	
	•		DATE MAILED: 10/17/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	,	Applicant(s)						
Office Action Summary		10/014,712		LINDNER ET AL.						
		Examiner		Art Unit						
		Ngoc-Yen M. Ng	uven	1754						
The MAILING DATE of this communication appears on the cover she t with the correspondence address										
Peri df	• •									
THE N - Extens after S - If the p - If NO - Failure - Any re	PRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 EIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period was to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing a patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howen within the statutory minuil apply and will expire cause the application to	over, may a reply be time imum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	ely filed will be considered timel he mailing date of this co	y. ommunication.					
1)⊠	Responsive to communication(s) filed on 16 J	luly 2003 .	-							
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-fi	nal.							
3)□ Dispositio	Since this application is in condition for allowa closed in accordance with the practice under <i>l</i> on of Claims	ince except for fo Ex parte Quayle,	rmal matters, pro 1935 C.D. 11, 4	osecution as to th 53 O.G. 213.	e merits is					
4) 🛛	Claim(s) <u>1-20</u> is/are pending in the application	•								
4	a) Of the above claim(s) <u>18-20</u> is/are withdraw	n from considera	tion.							
5) 🗌 (	Claim(s) is/are allowed.	•			•					
6)🛛	Claim(s) <u>1-17</u> is/are rejected.									
	Claim(s) is/are objected to.									
	Claim(s) are subject to restriction and/or	r election require	nent.							
Application		•								
9)∐ T	he specification is objected to by the Examiner	·.								
10)∐ T	he drawing(s) filed on is/are: a)□ accep	ted or b) objecte	ed to by the Exam	niner.						
	Applicant may not request that any objection to the	drawing(s) be held	d in abeyance. Se	e 37 CFR 1.85(a).						
11) 🗌 T	he proposed drawing correction filed on	is: a)∏ approve	d b)∐ disapprov	ed by the Examin	er.					
	If approved, corrected drawings are required in rep	ly to this Office act	ion.							
12) 🗌 T	he oath or declaration is objected to by the Exa	aminer.								
Priority ur	nder 35 U.S.C. §§ 119 and 120		•	• .						
13) 🗌 📝	Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)	-(d) or (f).						
a)[	All b) Some * c) None of:									
· 1	. Certified copies of the priority documents	have been rece	ved.							
2	2. Certified copies of the priority documents	have been recei	ved in Applicatio	n No						
	B. Copies of the certified copies of the priori application from the International Bure te the attached detailed Office action for a list of	eau (PCT Rule 1	7.2(a)).		Stage					
	knowledgment is made of a claim for domestic				application).					
a)	☐ The translation of the foreign language provices in the comment is made of a claim for domestices.	visional applicatio	n has been rece	ived.	,					
Attachment(:		•		•						
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🗌		(PTO-413) Paper No(atent Application (PTC						

U.S. Patent and Trademark Office PTOL-326 (Rev. 04-01) Application/Control Number: 10/014,712

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## **DETAILED ACTION**

Applicant's election with traverse of Group I, claims 1-17 and Zr species in Paper No. 7 and 9 is acknowledged. The traversal is on the ground(s) that the Office has failed to show how the alleged use of the product of Group I for "textile treatment" is materially different from the method of Group II. This is not found persuasive because as Group II is drawn to a method of making paper, thus, as evidence by claim 19, which is drawn to a method of making textiles, the product as claimed can be used in a materially different process of using that product. Also, Group II, III and IV are unrelated because they are drawn to three different processes, namely, a process for making paper, a process for making textiles and a process of coating paper, these processes have different functions and different effects.

Applicants also urge that the rules do not provide for an election of species in a subsequent action, especially when no amendment was made prior thereto.

37 CFR 1.142(a), second sentence states: "[i]f the distinctness and independence of the invention be clear, such requirement will be made before any action upon the merits; however, it may be made at any time before final action in the case at the discretion of the examiner." This means the examiner should make a proper requirement as early as possible in the prosecution, in the first action if possible, otherwise, as soon as the need for a proper requirement develops. See MPEP 811. The same rule would be applicable to Election requirement also.

The requirement is still deemed proper and is therefore made FINAL.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-17are rejected under 35 U.S.C. 103(a) as being unpatentable over Rekers et al (5,231,066).

Rekers '066 discloses a method of preparing a silica gel particle, comprising the steps of:

- a. forming a silica hydrogel by neutralizing an aqueous solution of a silicate, wherein the silicate includes a cation selected from the group consisting of alkali metals, ammonium, and combinations thereof, by adding the silicate solution to a first aqueous acid solution to raise the pH of the first aqueous acid solution until the silica hydrogel is precipitated;
- b. aging the silica hydrogel of step a. in the resulting solution of step a. for a time sufficient to provide an aged silica hydrogel having a first average pore radius;
- c. adding silicate solution as defined in step a. to the aged hydrogel and solution of step b. to raise the pH thereof to at least about 9;
- d. neutralizing the resulting hydrogel and solution of step c. by adding a second aqueous acid solution thereto to sufficiently lower the pH thereof to further precipitated the silicate as a hydrogel having a second average pore radius on the hydrogel of step b.; and

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e. heat-aging the resulting hydrogel and solution of step d. for a sufficient time and at a sufficiently high temperature to fix the respective first and second average pore radii of the hydrogel of step d. (note claim 1)

The acid can be sulfuric acid (note claim 2).

As disclosed in Examples 15-16, titanium, zirconium, vanadium can be added to the process. The zirconium compounds can be an alkali metal or an ammonium zirconium oxalate (organic compound) (note column 17, lines 47-66). Preferably, the sum of the zirconium and titanium and vanadium concentrations with respect to silica, as SiO<sub>2</sub> is about 5 wt% of less (note column 18, lines 1-5). This range would overlap the claimed range of "maximum surface concentration of the foreign atoms of between 1.10<sup>-5</sup> and 0.05 mmol/m<sup>2</sup>. The titanium and/or zirconium and/or vanadium-containing compounds are coprecipitated with the silicate salt. Such coprecipitations result in an intimate incorporation and distribution of the titanium and/or zirconium and/or vanadium into the bulk of the silica (note column 18, lines 5-17).

Rekers '066 further teaches that the surface area is from 200 to 500 m²/g (note sentence bridging columns 11 and 12). This range overlaps the claimed range. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see In re Malagari, 182 U.S.P.Q. 549.

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As to the order of the addition of the reactants, it would have been obvious to one of ordinary skill in the art to optimize such order in order to obtain a silica with the desired properties as disclosed in Rekers '066.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (703) 308-2536. The examiner can normally be reached on Part time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (703) 308-3837. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Ngoc-Yen M. Nguyen Primary Examiner

Major e egen Grugar

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nmn 10/6/03